

THE TOOL COMPANY

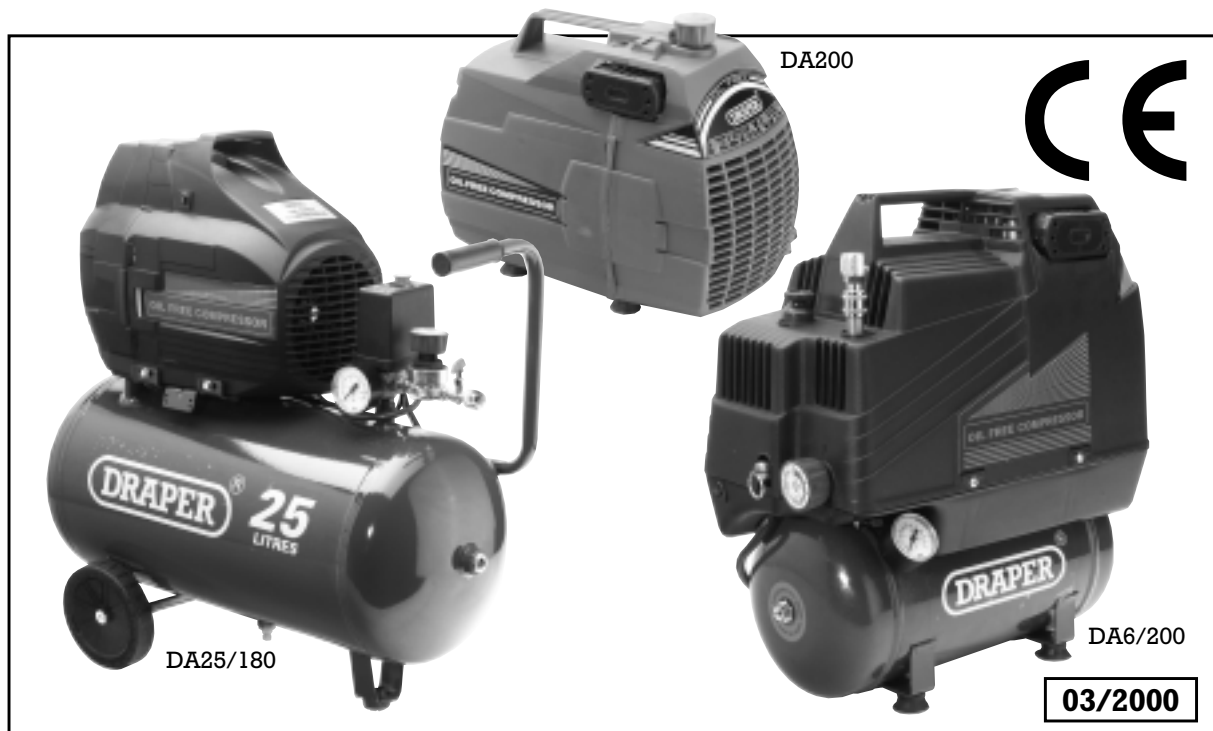
# OIL FREE COMPRESSORS

**STOCK No. 30561.**  
**STOCK No. 60607.**  
**STOCK No. 60606.**  
**STOCK No. 30562.**

**PART No. DA200.**  
**PART No. DA6/200.**  
**PART No. DA25/180.**  
**PART No. DA25/200.**

## • INSTRUCTIONS •

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO  
ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.



## GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the power tool equipment, which should be kept with the machine.

This manual describes the purpose for which this tool has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation of the machine, before performing any kind of adjustment to the machine, and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both machine and operator safety, together with longer life of the tool itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the machine.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tool policy of continuous improvement determines the right to make modifications without prior warning.



THE TOOL COMPANY

# OIL FREE COMPRESSORS

STOCK Nos. 30561, 60607, 60606, 30562.

PART Nos. DA200, DA6/200, DA25/180, DA25/200.

Whilst every effort has been made to ensure accuracy of information given in this manual is correct at the time of going to print, the Draper Tools policy of continuous improvement determines the right to change specification without notice.

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THE TOOL COMPANY

## DECLARATION OF CONFORMITY

We  
Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. England.

Declare under our sole responsibility that the product:

**Part Number:-** DA200, DA6/200, DA25/180, DA25/200

**Stock No:-** 30561, 60607, 60606, 30562

**Description:-** Compressor

To which this declaration relates is in conformity with the following directive(s) 98/37/EC, 87/404/EEC, 89/336/EEC.

With reference to EN 292-2, IEC 34-1, EN 60335-1.

JOHN DRAPER  
Managing Director  
Issue Date: 20/03/2000

# SPECIFICATION

Whilst every effort has been made to ensure accuracy of information given in this manual is correct at the time of going to print, the Draper Tools policy of continuous improvement determines the right to change specification without notice.

Part No.	DA200	DA6/200	DA25/180	DA25/200
Stock No.	30561	60607	60606	30562
Air displacement	7.0cfm (200 L/min)	7.0cfm (200 L/min)	6.3cfm (179 L/min)	7.0cfm (200 L/min)
Free air delivered (FAD)	4.8cfm (135 L/min)	4.8cfm (135 L/min)	-	4.8cfm (135 L/min)
Motor	1.5KW (2.0HP) 230V/A.C.	1.5KW (2.0HP) 230V/A.C.	1.1KW (1.5HP) 230V/A.C.	1.5KW (2.0HP) 230V/A.C.
Speed	2850rpm	2850rpm	2850rpm	2850rpm
Maximum pressure	116 PSI (8 bar)	116PSI (8 bar)	116 PSI (8 bar)	116 PSI (8 bar)
Number of cylinders	1	1	1	1
Receiver capacity	-	6 litres	25 litres	25 litres
Weight	9.5kg	14kg	18.5kg	24kg
*Sound pressure level	76.8 dbA	76.8 dbA	80.5 dbA	76.8 dbA
*Sound power level	87.9 dbA	87.9 dbA	85 dbA	87.9 dbA

## \*WEAR EAR PROTECTION

**Note: DA25/180 is not suitable for prolonged or continuous use.**

# GUARANTEE

Draper machine tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is reduced to ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone: (023) 8026 6355.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited

# SAFETY WARNING

## **WARNING:**

Please read the following instructions carefully. Failure to do so could lead to serious personal injury.

## **IMPORTANT:**

Draper Tools recommends that this compressor should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

## GENERAL SAFETY RULES FOR COMPRESSORS AND TOOLS

### **1. KNOW YOUR COMPRESSOR**

Before operating the compressor, read and fully understand the starting, operating and stopping sections in this manual. Read all labels affixed to the compressor. Learn its applications and limitations.

### **2. SERVICING AND MAINTENANCE**

Do not service or maintain this compressor until you have read and understood the maintenance section of this manual.

### **3. CHECK DAMAGED PARTS**

Before further use of this compressor a guard or other part that is damaged should be carefully checked to ensure that it will operate correctly and perform its intended function. Check for alignment of moving parts, breakage of parts and any other conditions that may effect its operation. A guard or other part that is damaged should be properly repaired or replaced.

### **4. DISCONNECT FROM POWER SUPPLY**

Before servicing, maintaining or replacing damaged parts ALWAYS disconnect the compressor from the power supply.

### **5. EARTH**

This compressor is equipped with an approved 3-core power cable. The green and yellow conductor in the cord is the earth wire. NEVER connect the yellow and green wire to a live terminal.

### **6. AVOID DANGEROUS ENVIRONMENTS**

Do not use the compressor in damp or wet locations or expose it to rain. Keep the work area well lit. Provide adequate surrounding work space.

**WARNING** - Not suitable for building sites.

### **7. KEEP GUARDS IN PLACE**

### **8. AVOID ACCIDENTAL STARTING**

Make sure the power supply switch is off before connecting to the power supply.

### **9. KEEP CHILDREN AWAY AND MAKE WORKSHOP CHILDPROOF**

All visitors should be kept a safe distance from the work area. The power tools and workshop should be made childproof with padlocks, master switches or by removing starter keys.

### **10. NEVER LEAVE THE COMPRESSOR RUNNING UNATTENDED**

Turn the power supply off. Do not leave the compressor until it comes to a complete stop.

### **11. DO NOT OVERLOAD THE COMPRESSOR**

Before operating any air tool check that the free air delivery (FAD) from the air compressor is equal or greater than that of the air tool to be used.

NOTE: the compressor should not start more than nine times in one hour.

### **12. AIR PRESSURE**

Always check that the air supply pressure is equal to or less than the air tool manufacturers maximum operating pressure.



### **13. USE SAFETY GOGGLES/MASK**

Wear safety goggles (which comply to a recognized standard) at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also use a face mask if a cutting operating is dusty or if spraying paint or other toxic substances.

### **14. USE RECOMMENDED ACCESSORIES**

For a complete range of recommended accessories please refer to page 9 of this manual.

## CONNECTING THE COMPRESSOR TO THE POWER SUPPLY:

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced an  approved BS1362 fuse must be used of the same rating, marked thus . The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.

If the fitted plug is not suitable, it should be cut off and destroyed. \*The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.


### \*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

### WARNING: THIS APPLIANCE MUST BE EARTHED.

Green and Yellow - Earth, Blue - Neutral, Brown - Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.:

The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter 'E' or by the earth symbol  or coloured green or green and yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

N.B. Three phase machines must be connected by a qualified electrician.

## EXTENSION LEAD CHART:

Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.

Ampere rating (on Name plate)	3	6	10	13
Extension cable length	Wire Size mm <sup>2</sup>			
7.5m	0.75	0.75	1.0	1.25
15m	0.75	0.75	1.0	1.5
22.5m	0.75	0.75	1.0	1.5
30m	0.75	0.75	1.25	1.5
45m	0.75	1.25	1.5	2.5

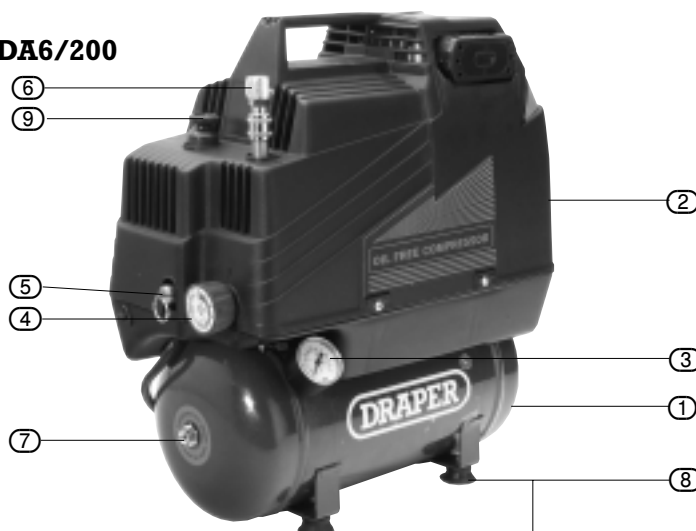
# KNOW YOUR AIR COMPRESSOR

## DA200



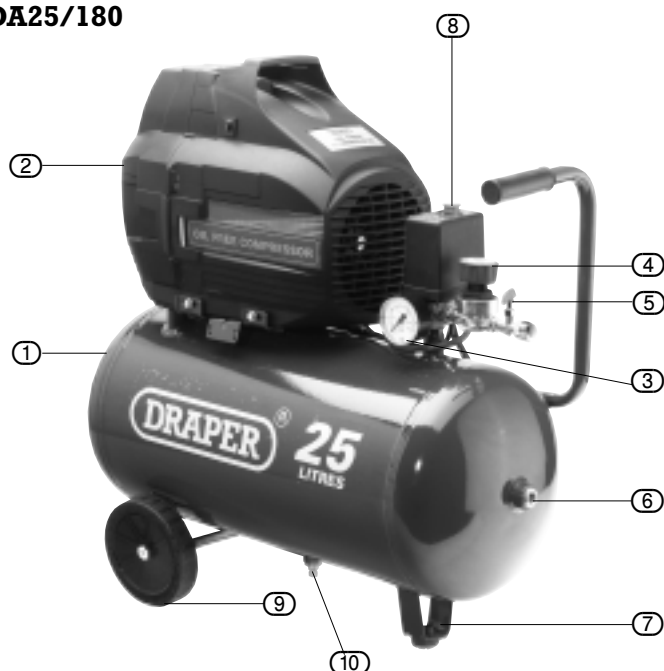
- ① HANDLE.
- ② COWLING- covers, protects hot/moving parts.
- ③ PRESSURE REGULATOR- adjusts output air pressure.
- ④ AIR OUTLET CONNECTOR.
- ⑤ FEET.
- ⑥ ON/OFF SWITCH

## DA6/200



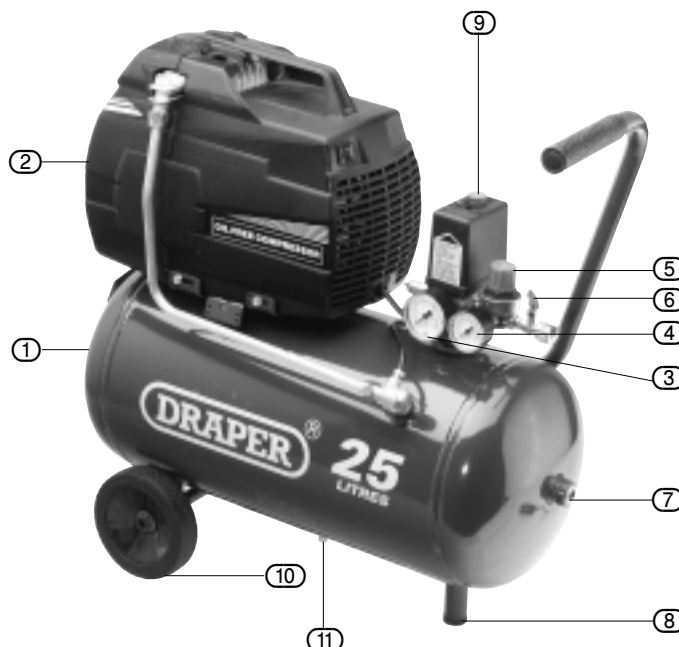
- ① AIR RECEIVER- stores air.
- ② MOTOR COWLING- covers, protects hot/moving parts.
- ③ PRESSURE GAUGE- indicates receiver air pressure.
- ④ PRESSURE REGULATOR- adjusts output air pressure.
- ⑤ SAFETY VALVE.
- ⑥ AIR OUTLET VALVE.
- ⑦ INSPECTION PLUG.
- ⑧ FEET.
- ⑨ ON/OFF SWITCH.

## DA25/180



- ① AIR RECEIVER- stores air.
- ② MOTOR COWLING- covers, protects hot/moving parts.
- ③ PRESSURE GAUGE- indicates receiver air pressure.
- ④ PRESSURE REGULATOR- adjusts output air pressure.
- ⑤ AIR OUTLET VALVE.
- ⑥ INSPECTION PLUG.
- ⑦ FOOT.
- ⑧ ON/OFF SWITCH.
- ⑨ WHEEL.
- ⑩ DRAIN COCK.

## DA25/200



- ① AIR RECEIVER- stores air.
- ② MOTOR COWLING- covers, protects hot/moving parts.
- ③ PRESSURE GAUGE- indicates receiver air pressure.
- ④ PRESSURE GAUGE- indicates output air pressure.
- ⑤ PRESSURE REGULATOR- adjusts output air pressure.
- ⑥ AIR OUTLET VALVE.
- ⑦ INSPECTION PLUG.
- ⑧ FOOT.
- ⑨ ON/OFF SWITCH.
- ⑩ WHEEL.
- ⑪ DRAIN COCK.

# COMPRESSOR OPERATION

Connect the compressor to the power supply. Always turn on and off by the appropriate switch.

**TURNING ON AND OFF (DA6/200, DA25/180, DA25/200 - NOT DA200): THE ON/OFF SWITCH.**

(A) Fig.1. is located on the top of the pressure switch box.

These compressors are controlled by a pressure switch assembly (B) Fig.2. which automatically cuts off the power supply to the motor when the upper limit is reached and restarts the compressor automatically when the pressure drops below the minimum.

**TURNING ON AND OFF (DA200 ONLY):**

This compressor is operated by a manual on/off switch (F) Fig.4. and NOT by an automatic pressure switch as fitted to the other compressors shown in this booklet.

**WARNING (DA6/200, DA25/180, DA25/200):**

The pressure switch is set at the factory and the compressor is also fitted with a safety valve in the event of the pressure switch not functioning correctly.

## SETTING THE REQUIRED AIR PRESSURE:

**DA25/180, DA25/200**

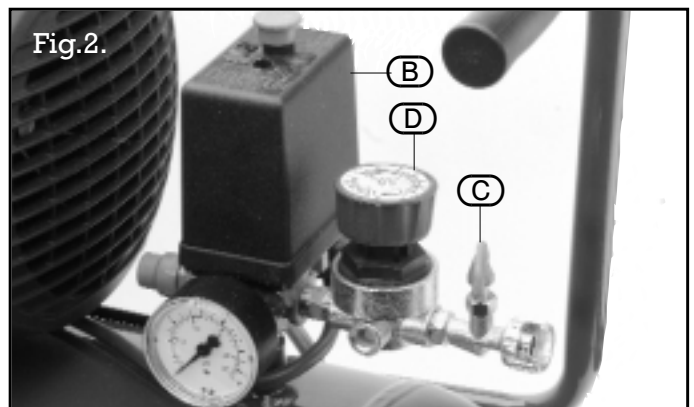
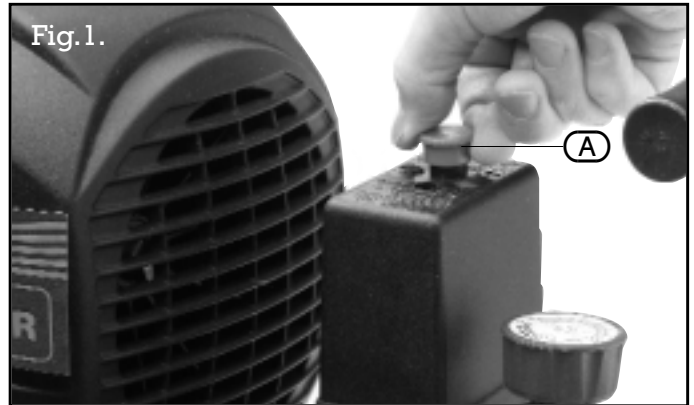
Close the air outlet valve (C) Fig.2. and adjust pressure by turning the knob on the pressure regulator valve (D) Fig.2. clockwise to increase pressure. Should it be necessary to decrease pressure open the the air outlet valve (C) Fig.2. slightly and then turn the pressure regulator valve knob (D) anticlockwise, re-close air outlet valve (C).

**DA200**

This compressor is fitted with a pressure regulator unit (G) Fig.4. so the pressure may be regulated as necessary. To increase the pressure turn the knob clockwise, to decrease the pressure turn the knob anticlockwise.

**DA6/200**

Close the air outlet valve (K) Fig.3. and adjust pressure by turning the knob on the pressure regulator valve (L) Fig.3. clockwise to increase pressure. Should it be necessary to decrease pressure open the the air outlet valve (K) Fig.3. slightly and then turn the pressure regulator valve knob anticlockwise, re-close air outlet valve.



## IMPORTANT:

Before performing any maintenance operations, disconnect the compressor from the power supply and release all the air from the receiver, until the pressure gauge reads zero.

## EVERY DAY:

Drain the condensate from the receiver. The drain (H) Fig. 5. is situated on the underside of the receiver tank for the DA25/200, DA25/180 and on the end of the tank for the DA6/200.

## EVERY MONTH:

Clean the air suction filter using compressed air. Replace the filter every 50 hours of use.

## EVERY 100 HOURS:

Clean all the external surfaces of the pump unit and motor. Ensure that neither the motor fan cowling (J) or head cooling fins are blocked or obstructed in any way. See Fig.6.

## EVERY 200 HOURS:

Check the condition of the valves and replace them if they are damaged or worn.

## PRESSURE SWITCH SETTINGS (DA6/200, DA25/180, DA25/200):

The delivery pressure setting can drift over a period of time and will require periodic adjustment. Ensure that the pressure switch settings are correctly adjusted and maintained at the correct level. This will help prevent faults occurring which can result in reduced performance and possible failure.

## PRESSURE SWITCH ADJUSTMENTS (DA6/200, DA25/180, DA25/200):

To adjust the pressure level at which the cut-out and cut-in functions, remove the switch cover and turn the pressure regulating screw (K) clockwise to increase the level and anticlockwise to decrease the level. See Fig.7.

## WARNING:

**DO NOT ADJUST THE CUT-OUT PRESSURE ABOVE THE MAXIMUM PRESSURE AS PER THE MACHINE SPECIFICATION.**

Fig.5.

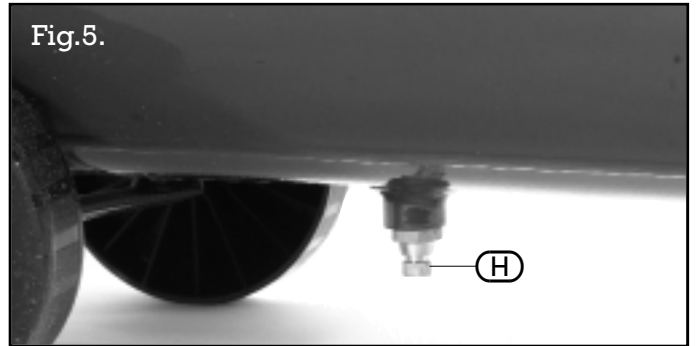


Fig.6.

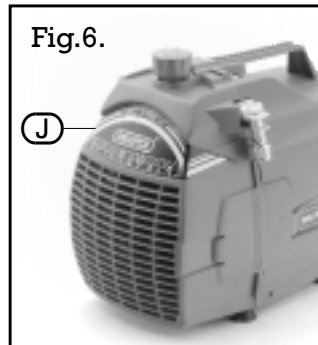


Fig.6.

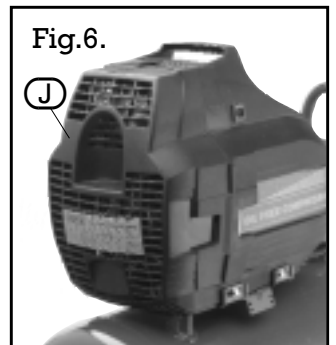
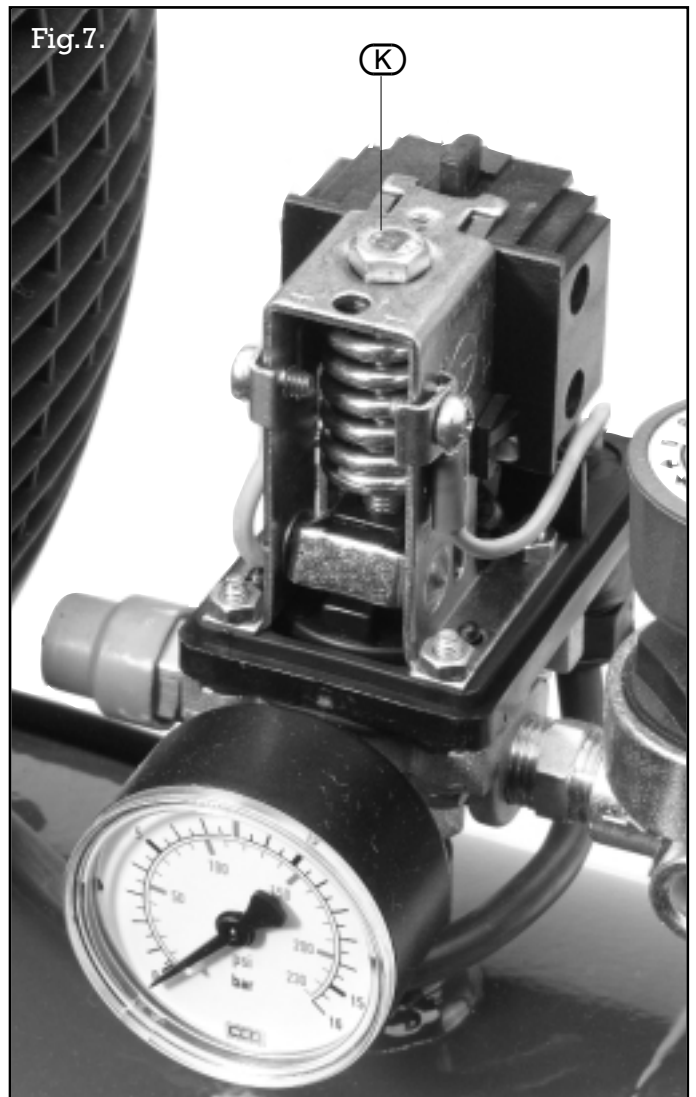
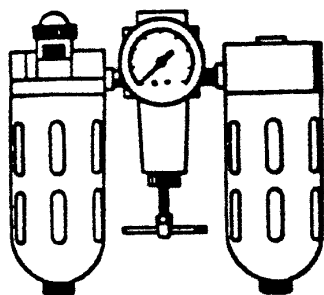


Fig.7.

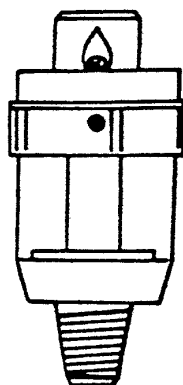




# OPTIONAL ACCESSORIES



**1/2" Combination Filter  
Regulator/Lubricator**  
Part No.4222/3.  
Stock No.51857.



**Mini Oiler**  
Part No.4255.  
Stock No.22317.

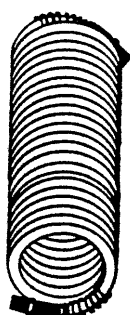


**1/4" Combined  
Filter/Regulator**  
Part No.4222/4.  
Stock No.51858.



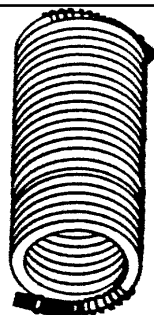
**1/4" Recoil Air Hose (7.6M\*)**  
Part No.4225/1A.  
Stock No.52662.

\*overall length



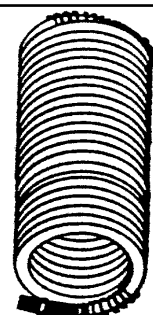
**3/8" Recoil Air Hose (7.6M\*)**  
Part No.4225/2A.  
Stock No.52663.

\*overall length



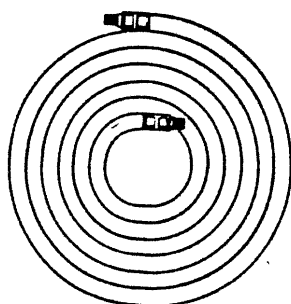
**HEAVY DUTY**  
**1/4" Nylon Recoil Air Hose**  
(7.6M\*)  
Part No.4282.  
Stock No.27742.

\*working length



**HEAVY DUTY**  
**3/8" Nylon Recoil Air Hose**  
(7.6M\*)  
Part No.4283.  
Stock No.27743.

\*working length

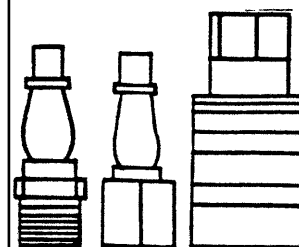


**1/4" Straight Air Line Hose**  
(15.2M) - working length  
Part No.4306.  
Stock No.36939.

**5/16" Straight Air Line Hose**  
(15.2M) - working length  
Part No.4307.  
Stock No.36940.

**3/8" Straight Air Line Hose**  
(15.2M) - working length  
Part No.4308.  
Stock No.36941.

**1/2" Straight Air Line Hose**  
(15.2M) - working length  
Part No.4309.  
Stock No.36942.



**3 pce Air Line Coupling Set**  
Part No.ACK2.  
Stock No.37844.  
See Draper Catalogue for  
full range of PCL  
couplings and fittings

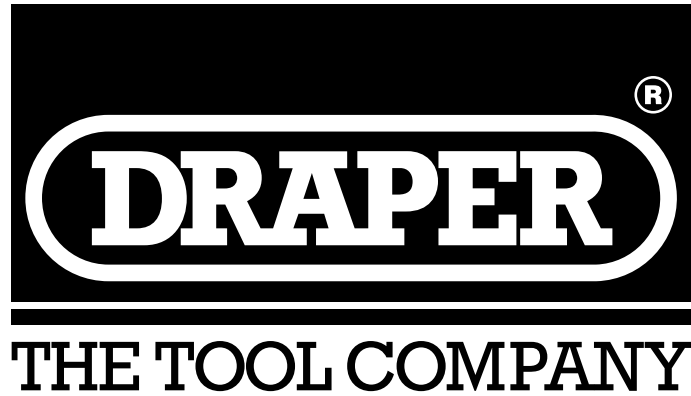
# TROUBLE SHOOTING GUIDE

SYMPTOMS	POSSIBLE CAUSES
Compressor will not start.	Power cable faulty. No power source. Fuse blown. Circuit breaker open. Motor thermal overload faulty. Pressure switch faulty.
Thermal overload trips.	Pressure switch failure/motor overload.
Sudden loss of pressure when compressor shuts off.	Loose connections. Safety valve leaking. Faulty pressure regulation valve.
Noisy operation (knocking).	Bearing Failure.
Air blowing from inlet.	Broken inlet valve(s).
Low air output.	Kinked hose. Connections leaking. Intake filter dirty.
Excessive belt wear (where fitted).	Belt too loose/tight. Pulley and flywheel misaligned.
Moisture in air output.	Caused by high humidity. Move to an area of less humidity. Drain condensate.
Compressor runs continuously.	Defective pressure switch.

**IMPORTANT: PLEASE NOTE ALL REPAIRS/ADJUSTMENTS SHOULD BE CARRIED OUT BY A QUALIFIED PERSON.**

**POWER DIVISION HELP LINE:  
(023) 8049 4344**

# NOTES:



## **DRAPER TOOLS LTD.**

Hursley Road, Chandler's Ford,  
Eastleigh, Hants. SO53 1YF. England.

Tel: (023) 8026 6355.

Fax: (023) 8026 0784.

YOUR DRAPER STOCKIST

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